

Fig. 1

10072471.020702

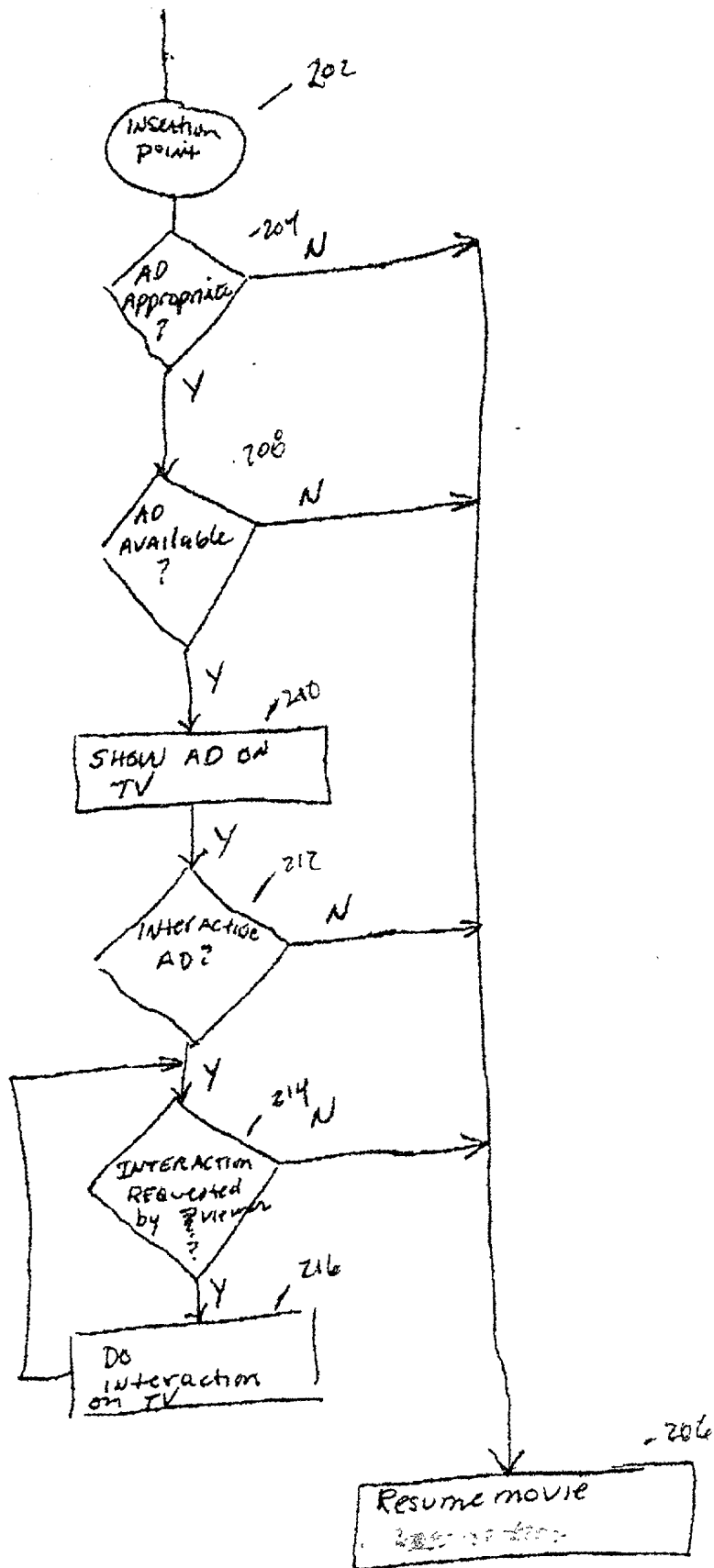
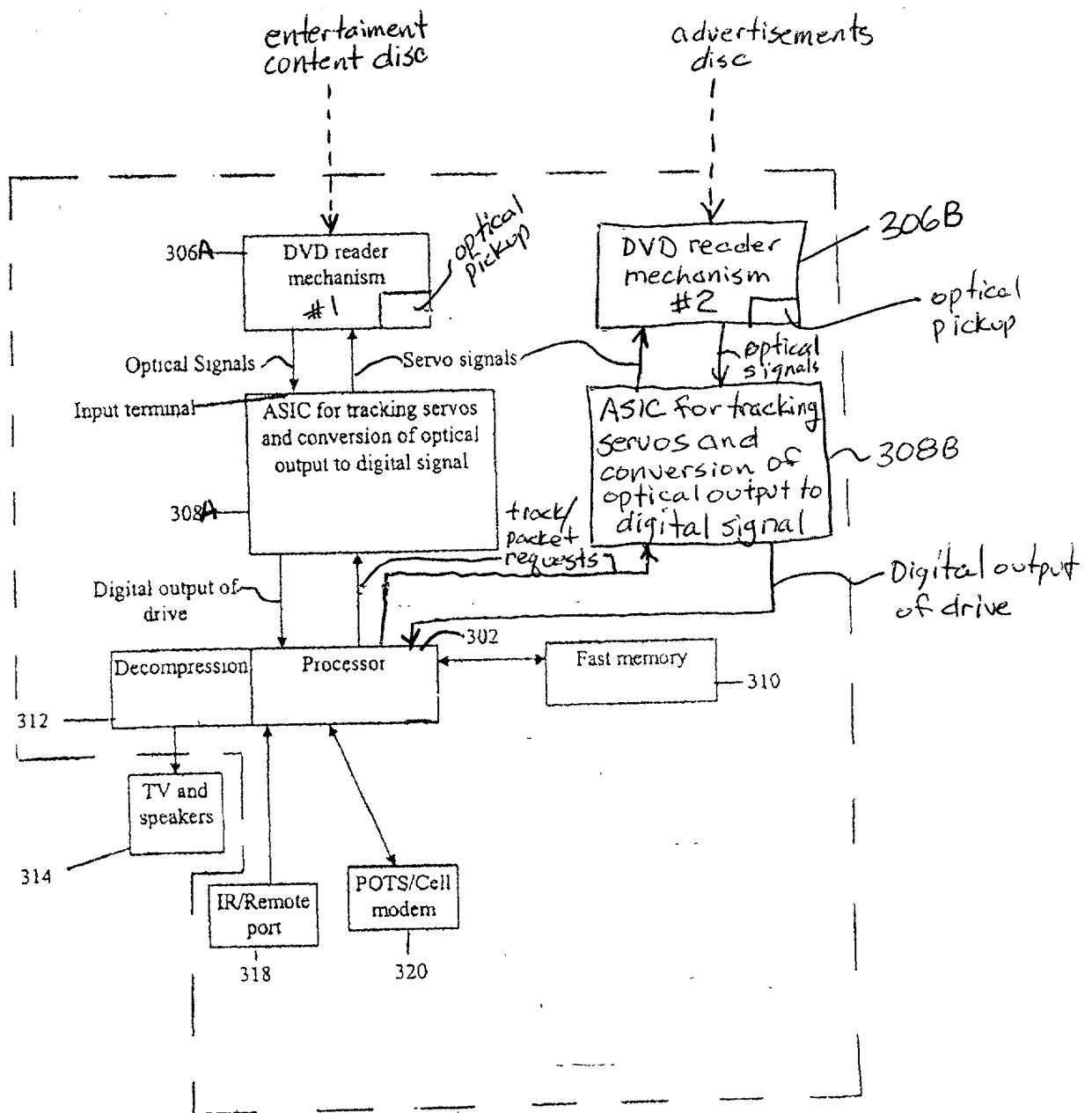


Fig. 2



Block diagram of components in the DVD OA player. Fast memory is DRAM or SRAM to allow block reading or manipulation of blocks of raw data. Modem for back channel communication to obtain keys and accomplish billing. Proprietary ASIC (application specific integrated circuit) used as controller/reader for altered disk. Human interaction is via a conventional TV remote for box input and characters (or voices) to the TV for output to the customer

Figure 3

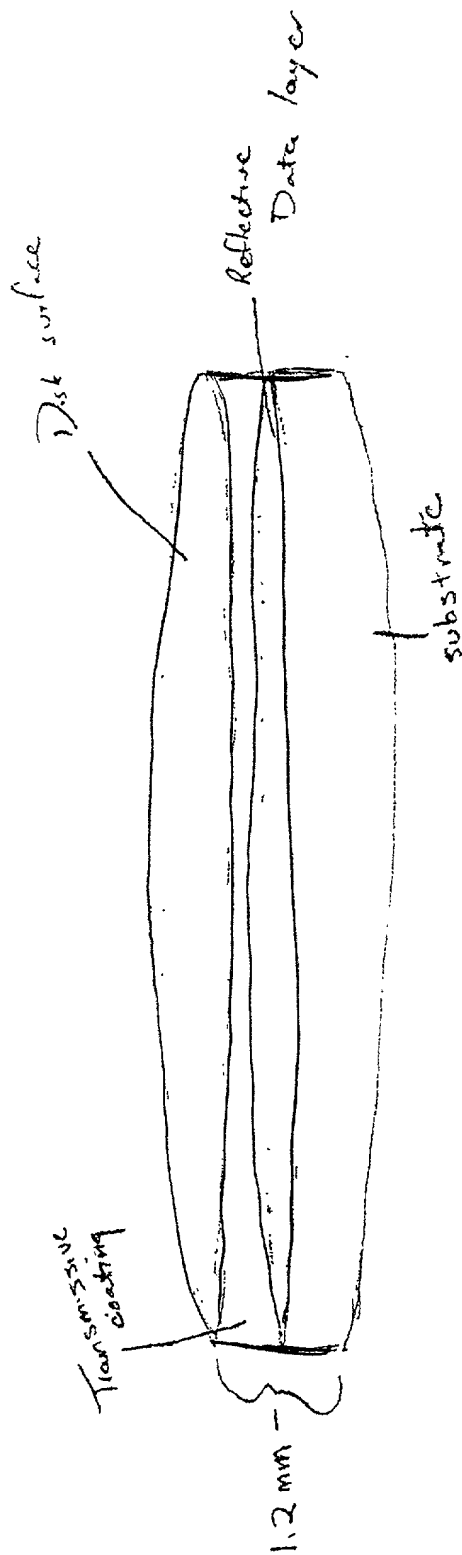
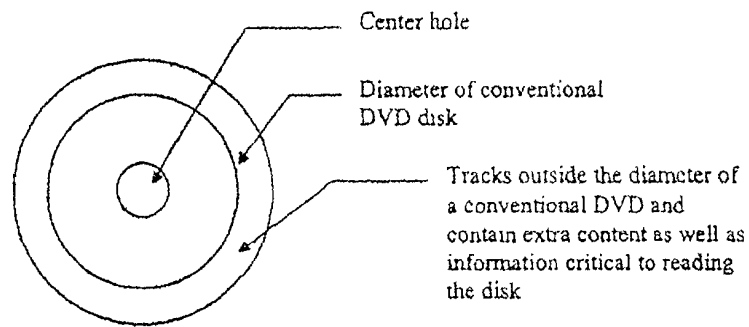


FIGURE 4

Figures for DVD-Optically Altered Filing



Physical schematic of an optically altered disk. The OA disk cannot be successfully read by a normal DVD player or DVD computer drive because the disk is larger in diameter than will fit in the drives or its outer tracks cannot be radially reached by the drive. Typically, information critical to the content or reading of the content is placed on the outer tracks to prevent successful reading of the disk if the disk is physically reduced in diameter. In addition to physical dimensions, disks may be optically modified so they cannot be read by conventional optics and may have error correction or blocking schemes that confound a conventional reader.

Figure 5

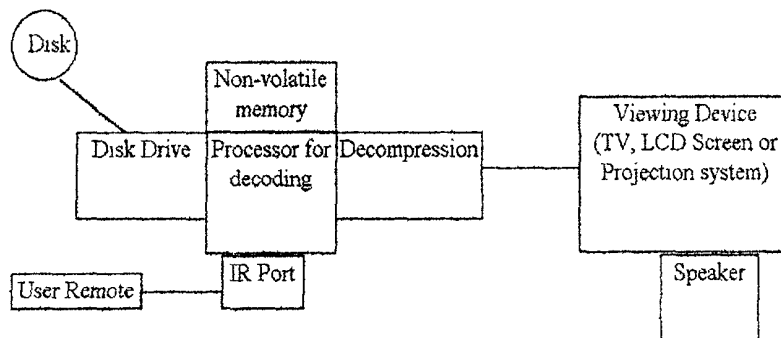


Figure 6: A simple portable player with drive to read a single disk, processor to issue commands to the drive, issue and track player permissions or credits, receive customer commands via an IR or wireless remote, and conduct decoding and/or decompression of content. Multiple content output devices are possible including TV sets, small LCD screens, and projection systems. Note the IR port may also used to conduct communication with the home box. Some portable boxes may have a second disk drive for an advertisements disk and/or larger memory capacity to allow caching of advertisements or content.

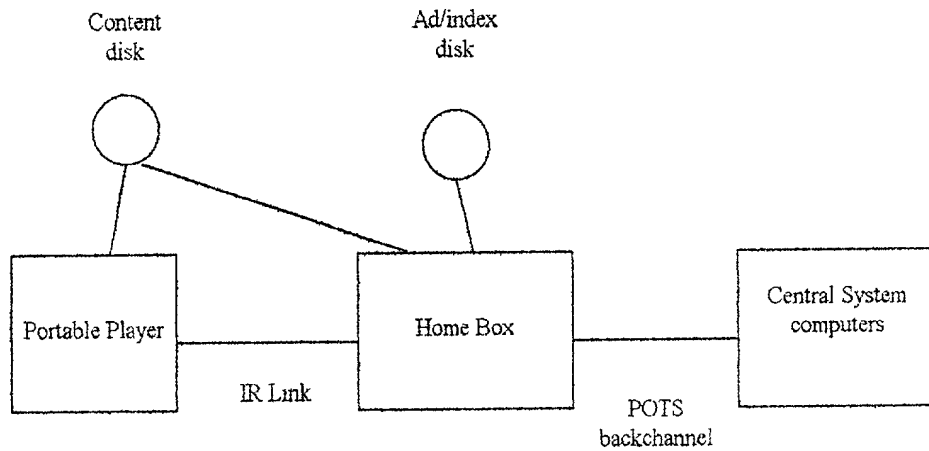


Figure 7: One embodiment of the relationship between a portable and home box. The home box communicates through the back channel with the central computer to obtain viewing credits, report movies viewed and conduct additional communication such as sending decoding keys or taking information requests. Communication of the same information to a portable box is done through the IR ports on both the home and the portable boxes. Note that content disks can be played on either the home or portable boxes while advertisements disks may not be required for the portable box. Note that multiple portable boxes may be associated with each home box.